In the Claims: (strikethrough parts deleted and underlined parts added)

Please delete Claims 2, 7-12 without prejudice.

1. (Currently Amended) A standby generator integration system, comprising:

a contactor unit electrically capable of being electrically coupled between a standby generator and a power grid; and

a control unit in communication with said contactor unit, wherein said control unit is capable of monitoring a generator voltage and a power grid voltage for calculating a hard minimum;

wherein said control unit rectifies a generator voltage and a power grid voltage and then sums the rectified voltages together to calculate a hard minimum.

2. (Canceled)

3. (Currently Amended) The standby generator integration system of Claim 1 ~~Claim 2~~, wherein said control unit includes a first rectifier that receives a power grid voltage and a second rectifier that receives a generator voltage.

4. (Original) The standby generator integration system of Claim 3, wherein said control unit includes a summary circuit in communication with said first rectifier and said second rectifier for summing the rectified voltages to form a summed voltage.

5. (Original) The standby generator integration system of Claim 4, wherein said control unit includes a microcontroller in communication with said summary circuit, wherein said microcontroller calculates one or more hard minimums of said summed voltage.

6. (Original) The standby generator integration system of Claim 1, wherein said control unit initiates closing of said contactor unit an advance time prior to a desired closing time, wherein said advance time is similar to a delay time of said contactor unit.

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Original) A method of integrating a standby generator into a power grid, said method comprising the steps of:

monitoring a power grid voltage and a generator voltage;

rectifying said power grid voltage and said generator voltage;

summing said rectified voltages;

calculating a first hard minimum;

calculating a second hard minimum;

calculating a time period between said first hard minimum and said second hard minimum; and

calculating one or more future hard minimums.

14. (Original) The method of integrating a standby generator of Claim 13, including the step of initiating a closing of a contactor unit an advance time before a next hard minimum, wherein said advance time is approximately equal to a time delay of said contactor unit.

Please add the following claims:

15. (New) A standby generator integration system, comprising:

a contactor unit electrically capable of being electrically coupled between a standby generator and a power grid; and

a control unit in communication with said contactor unit, wherein said control unit is capable of monitoring a generator voltage and a power grid voltage for calculating a hard minimum;

wherein said control unit rectifies a generator voltage and a power grid voltage and then sums the rectified voltages together to calculate a hard minimum;

wherein said hard minimum is a lowest level of the summed rectified voltages;

wherein said control unit initiates closing of said contactor unit an advance time prior to a desired closing time, wherein said advance time is similar to a time delay of said contactor unit.

16. (New) The standby generator integration system of Claim 15, wherein said control unit includes a first rectifier that receives a power grid voltage and a second rectifier that receives a generator voltage.

17. (New) The standby generator integration system of Claim 16, wherein said control unit includes a summary circuit in communication with said first rectifier and said second rectifier for summing the rectified voltages to form a summed voltage.

18. (New) The standby generator integration system of Claim 17, wherein said control unit includes a microcontroller in communication with said summary circuit, wherein said microcontroller calculates one or more hard minimums of said summed voltage.